**Project report**

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In this project we used multithread with socket programming. The command line args are like Python client.py http://www.pakistan.gov.pk/images/pmpicture.jpg 3 resume

The number tells the number of threads to be made and resume tell to check if the file already exist complete then don’t download it again

User defines the number of threads to be made then each thread gets a connection and range of file to be downloaded with is divided evenly except the last thread gets the remaining part of the size in bytes.  
The URL is parsed by using urlparse and we separate hostname, path and the name of file to be downloaded   
  
First of all the HEAD request which only returns the header of the file. We used regex to find the content length from the regex.  
This size is used in making ranges for threads which are stored in form of string “0-9” and used as it is in the request   
  
We tried implementing the resuming of file by checking the file size if it already exist and making the ranges according to the remaining part of the file

We tested downloading pictures, text and videos and got good results i.e. speed and file quality. The code can be tested with any url as first argument, no of threads second and resume or not as third .The url can also be a localhost url made on port 8080

This is all from our side.

Thanks